

I CLAIM:

1. In a wireless local area network wherein mobile units are provided with radios for transmitting and receiving data communications messages between said mobile units and fixed access points, and wherein said mobile units are located using signal strength for radio communications between said mobile units and said access points, the improvement wherein at least some of said access points are provided with antennas having antenna patterns with selected pattern shape for enhancing location of said mobile units.
2. The improvement specified in claim 1 wherein said selected pattern shapes include horizontally offset directional antenna patterns.
3. The improvement as specified in claim 2 wherein said horizontally offset directional antenna patterns are horizontally offset in angular direction.
4. The improvement as specified in claim 1 wherein at least some of said antenna patterns offset in angular direction are provided by an antenna having multiple angularly offset beams
5. The improvement specified in claim 4 wherein said antennas having angularly offset beams are connected by a switch to a single access point circuit.
6. The improvement specified in claim 4 wherein said antennas having angularly offset beams are connected to multiple access point circuits.
7. The improvement specified in claim 4 wherein said antennas are mounted near the periphery of a facility.

8. The improvement as specified in claim 2 wherein said horizontally offset directional beams are horizontally offset in position.
9. The improvement as specified in claim 8 wherein at least some of said antennas are mounted near the periphery of a facility.
10. The improvement specified in claim 8 wherein said directional beams are offset in position to correspond to aisles in a facility.
11. The improvement specified in claim 1 wherein said antennas are located at selected heights for achieving said selected pattern shapes.